

***FlyBy Math™* Alignment**
Michigan Mathematics
Grade Level Content Expectations v.6.04

Strand: Number and Operations

Solve decimal, percentage and rational number problems

Grade Level Content Expectation	<i>FlyBy Math™</i> Activities
N.FL.06.14 For applied situations, estimate the answers to calculations involving operations with rational numbers.	--Use calculations and experimental evidence to predict, describe, and explain several aircraft conflict problems.
N.FL.06.15 Solve applied problems that use the four operations with appropriate decimal numbers.	--Use calculations and experimental evidence to predict, describe, and explain several aircraft conflict problems.

Strand: Algebra

Calculate rates

Grade Level Content Expectation	<i>FlyBy Math™</i> Activities
A.PA.06.01 Solve applied problems involving rates including speed, e.g., if a car is going 50 mph, how far will it go in 3__ hours?	--Represent distance, speed, and time relationship for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system. --Use formulas and graphs to solve and analyze aircraft conflict problems and to communicate results.

Understand the coordinate plane

Grade Level Content Expectation	<i>FlyBy Math™</i> Activities
A.RP.06.02 Plot ordered pairs of integers and use ordered pairs of integers to identify points in all four quadrants of the coordinate plane.	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

Represent linear functions using tables, equations, and graphs

Grade Level Content Expectation	<i>FlyBy Math™</i> Activities
A.RP.06.08 Understand that relationships between quantities can be suggested by graphs and tables.	--Represent distance, speed, and time relationship for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system. --Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.

<p>A.PA.06.09 Graph and write equations for linear functions of the form $y = mx$, and solve related problems, e.g., given n chairs, the “leg function” is $f(n) = 4n$; if you have 5 chairs, how many legs?; if you have 12 legs, how many chairs?</p>	<p>--Represent distance, speed, and time relationship for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.</p> <p>--Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.</p>
<p>A.RP.06.10 Represent simple relationships between quantities, using verbal descriptions, formulas or equations, tables, and graphs, e.g., perimeter-side relationship for a square, distance-time graphs, and conversions such as feet to inches.</p>	<p>--Represent distance, speed, and time relationship for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.</p>